



Electric Screwdrivers



LOW VOLTAGE

Electric screwdrivers

D Series 220 Volts • Direct plug-in

Page 3

D-180

D-180 P

GA Series Mini torque screwdrivers with controller

Page 4

GA-180

GA-180 P

DO Series 38 Volts screwdrivers with controller

Page 5

DO-250

DO-250 P

DO-A250 (spindle)

D Series

220 Volts • Direct plug-in • Torque range: 0,1 to 2,45 Nm • Auto shut-off • CE



Main Benefits

- designed for operator comfort : low sound level, ergonomic design, light weight
- designed for productivity : Direct plug-in, accurate shut-off clutch (+/- 3%)
- designed for quality : External torque adjustment scale, colored torque ring cover available avoiding process error.

D Series

Model	Torque range (Nm)	Rotation speed (rpm)	Drive size	Starting system	Weight (Kg)	Noise Level (dBA)	Vibrations Level (m/sec ²)	Code
D-180	0,1 - 1,76	1000	Fem. Hex 1/4"	Lever	0,56	<70	<2,5	1040001
D-250	0,15 - 2,45	620	Fem. Hex 1/4"	Lever	0,56	<70	<2,5	1040002
D-180P	0,25 - 1,76	1000	Fem. Hex 1/4"	Push-to-start	0,56	<70	<2,5	1040003
D-250P	0,25 - 2,45	620	Fem. Hex 1/4"	Push-to-start	0,56	<70	<2,5	1040004

Standard equipment (supplied with the tool)

- Power supply cable 3 m
- 2 carbon brushes
- 2 bits Philips n° 0, n° 1
- Clutch adjustment springs
- Suspension ring
- User manual

Wear spare parts

		
Designation	Carbon brush	Brush cap
Code	1041201	1041200

Accessories

					
Torque ring cover	Black	Gold	Grey	Blue	Green
Code	1041205	1041206	1041207	1041208	1041209

GA Series

Torque range : 0,08 to 1,18 Nm • Auto shut-off • CE • 



GA-150

GA-150 P

Main Benefits

- designed for operator comfort : light weight and small sized, full ergonomic design
- designed for productivity : Accurate shut-off clutch (+/- 3%), speed control, maintenance free (shut-off operated by magnetic sensor - no wearing)
- designed for quality : ESD free, External torque adjustment scale, soft start, double hit mode.

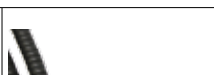
GA Series

Model	Torque range (Nm)	Rotation speed (rpm)	Drive size	Starting system	Weight (Kg)	Noise Level (dBA)	Vibrations Level (m/sec ²)	Code
GA-150 ESD	0,08 - 0,78	700 - 1000	Fem. Hex 1/4"	Lever	0,31	<70	<2,5	1040011
GA-180 ESD	0,1 - 1,18	450 - 700	Fem. Hex 1/4"	Lever	0,31	<70	<2,5	1040012
GA-150 P ESD	0,08 - 0,78	700 - 1000	Fem. Hex 1/4"	Push-to-start	0,31	<70	<2,5	1040013
GA-180 P ESD	0,1 - 1,18	450 - 700	Fem. Hex 1/4"	Push-to-start	0,31	<70	<2,5	1040014

Standard equipment (supplied with the tool)

- Power supply cable 3 m
- 2 carbon brushes
- 2 bits Philips n° 0, n° 1
- Clutch adjustment springs
- Suspension ring
- User manual

Accessories & Wear spare parts

							 Vacuum pick up assembly is provided without the sleeve (on request). The recommended bit length is 44 mm long. Feeding size : diameter 4mm.
Designation	Carbon brush	Brush cap	Torque ring cover Black	Ring for arm mounting	Extra long cable 5 m	Spiral cable 5 m	Screw vacuum Pick-up
Code	1041219	1041203	1041212	1041500	1041215	1041216	1041214

Vacuum pick up assembly is provided without the sleeve (on request). The recommended bit length is 44 mm long. Feeling size : diameter 4mm.

Controllers



XT-30D



XS-38D

DO Series *Torque range : 0,2 to 4,41 Nm • Auto shut-off • CE •*



Main Benefits

- designed for operator comfort : light weight and small sized, full ergonomic design
- designed for productivity : Robust and durable - Suitable with high production rate, Accurate shut-off clutch (+/- 3%), speed control, maintenance free (shut-off operated by magnetic sensor - no wearing)
- designed for quality : ESD free, External torque adjustment scale

DO Series

Model	Torque range (Nm)	Rotation speed (rpm)	Drive size	Starting system	Weight (Kg)	Noise Level (dBA)	Vibrations Level (m/sec ²)	Code
DO-250 ESD	0,2 - 2,45	630 - 1050	Fem. Hex 1/4"	Lever	0,72	<70	<2,5	1040036
DO-350 ESD	0,2 - 3,43	460 - 750	Fem. Hex 1/4"	Lever	0,72	<70	<2,5	1040037
DO-450 ESD	0,3 - 4,41	330 - 550	Fem. Hex 1/4"	Lever	0,72	<70	<2,5	1040038
DO-250 P ESD	0,2 - 2,45	630 - 1050	Fem. Hex 1/4"	Push-to-Start	0,72	<70	<2,5	1040040
DO-350 P ESD	0,2 - 3,43	460 - 750	Fem. Hex 1/4"	Push-to-Start	0,72	<70	<2,5	1040041
DO-450 P ESD	0,3 - 4,41	330 - 550	Fem. Hex 1/4"	Push-to-Start	0,72	<70	<2,5	1040042
DO-A250 ESD	0,2 - 2,45	630 - 1050	Fem. Hex 1/4"	Remote Start	0,82	<70	<2,5	1040043
DO-A350 ESD	0,2 - 3,43	460 - 750	Fem. Hex 1/4"	Remote Start	0,82	<70	<2,5	1040052
DO-A450 ESD	0,3 - 4,41	330 - 550	Fem. Hex 1/4"	Remote Start	0,82	<70	<2,5	1040061

Standard equipment (supplied with the tool)

- Power supply cable 3 m
- 2 carbon brushes
- 2 bits Philips n° 0, n° 1
- Clutch adjustment springs
- Suspension ring
- User manual

Accessories & Wear spare parts

Designation	Carbon brush	Brush cap	Torque ring cover Black	Ring for arm mounting	Extra long cable 5 m	Spiral cable 5 m	Pistol Grip Kit
Code	1041220	1041203	1041211	1041502	1041215	1041216	1010412

Controllers



XS-38D



XS-38D FA

Controllers

SMPS Technology Inside!



Main Benefits

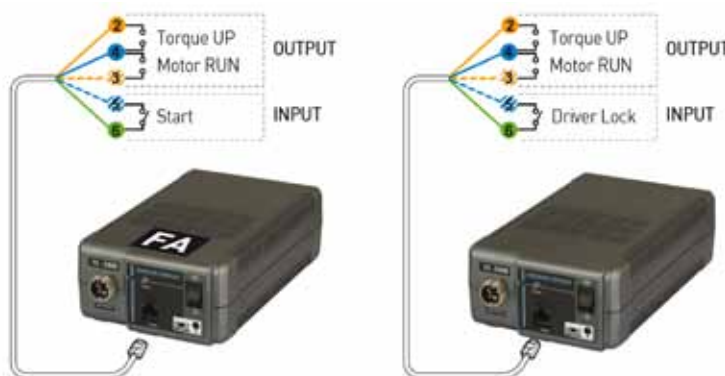
- High productivity : Thanks to the unique **SMPS technology** (switching modulation), the connected screwdriver always delivers constant rotation speed and fastening force even for demanding fastening process (self-tapping tightening, soft joint....)
- Comfort : Light weight and compact
- Durability : Built-in Over heat and Over Current protection prevent the screwdriver from damage or bad use
- Economy : Maintenance free
- Quality : Easy monitoring of your fastenings thanks to torque reached signal output, start and stop signal outputs, selectable softstart, Double-hit mode for soft joint, Screwdriver lock signal input for PLC (prevents screwdrivers activation until PLC input signal - on XS-38 D only).

Controllers

Model	Power (AC) (V)	Output voltage low (V)	Output voltage high (V)	Rated output (A)	Max. output (A)	Weight (Kg)	Size (mm)	For screwdrivers	Code
XT-30D	220	20	30	1,2	2	0,33	70x130x40	GA Series	1040062
XS-38D V4.3*	220	30	38	2,5	5	0,7	90x150x55	DO Series	1040063
		20	30					GA Series	
XS-38D FA	220	30	38	2,5	5	0,7	90x150x55	DO-A Series	1040067

Signals (Input- Output)

* XS-38D V4.3 : Signal Type selectable
Normally close or Normally open for NPN or PNP Communication



PLC Interface for XS-38D



- Model U-3
- Weight : 75g
- Size : 75(W) x 61(D) x 20(H)mm
- Type of signals :
 - open collector by optocoupler (reversed)
 - relay contact N.C
 - Relay contact N.O

Converted signals by U-3 converter from XS-38D

N°	Wire Color	Signal	XS-38D	Interface converter
1	ORANGE	Spare		
2	ORANGE STRIPE	Torque Up		
3	BLUE	Motor Run		
4	BLUE STRIPE	Common for 2&3 wire		
5	GREEN	Motor Lock		
6	GREEN STRIPE			
7	BROWN	No use		
8	BROWN STRIPE	Spare		



- Model U-3B
- Weight : 75g
- Size : 75(W) x 61(D) x 20(H)mm
- Type of signals :
 - open collector by optocoupler (reversed)
 - relay contact N.C
 - Relay contact N.O

Converted signals by U-3B converter from XS-38D

N°	Wire Color	Signal	XS-38D	Interface converter
1	ORANGE	Spare		
2	ORANGE STRIPE	Torque Up		
3	BLUE	Motor Run		
4	BLUE STRIPE	Common for 2&3 wire		
5	GREEN	Motor Lock		
6	GREEN STRIPE			
7	BROWN	No use		
8	BROWN STRIPE	Spare		

BRUSHLESS

Electric screwdrivers

GX Series 30 Volts - 0,05 to 1,2 Nm

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GX Series 40 Volts - 0,3 to 4,4 Nm

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Built-in control board
Digital speed control
better torque accuracy

Overload
Over Voltage & Heat Protection

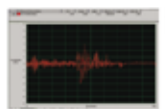
Trigger start and reserved button activated
THROUGH SENSORS (Maintenance free)

Brushless Motor (Made in Switzerland)
Designed for heavy duty cycle time



Clutch activated by sensors
(No maintenance)

Shockless Clutch (GXS models)



GX Series 30 Volts • Torque range : 0,09 to 1,2 Nm • Auto-shut off • CE •



Main Benefits

- Higher productivity : thanks to high Brushless motor efficiency!
- Higher comfort : thanks to improved ergonomoy and reduced sound level and heat!
- Increased economy : thanks to brushless motor (triple the life time of the motor).
- Reduced maintenance : The best Mean Time Between Failure (MTBF) ever reached until now (no carbon brush, trigger and reverse contactless switches, over-heat and over-current built in alarms protecting the screwdrivers).
- Increased production quality : thanks to ESD protection, accurate clutch +/- 3 % and Softstop clutch Mechanism.

STANDARD Series : GX

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec ²)	Code
GX-80 ESD V2	0,09 - 0,8	1000	Lever	0,35	< 70	< 2,5	1021025
GX-120 ESD V2	0,2 - 1,2	700	Lever	0,35	< 70	< 2,5	1021026
GX-80 P ESD V2	0,09 - 0,8	1000	Push to Start	0,35	< 70	< 2,5	1021027
GX-120 P ESD V2	0,2 - 1,2	700	Push to Start	0,35	< 70	< 2,5	1021028

+ Option : Soft start and double hit functions : Add suffix  in your order . Example : GX 80 + ESD

SOFT STOP Series : GXS

(built-in special clutch mechanism providing soft shut-off to protect fragile parts)

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec ²)	Code
GXS 80 ESD V2	0,09 - 0,8	1000	Lever	0,35	< 70	< 2,5	1021020
GXS 120 ESD V2	0,2 - 1,2	700	Lever	0,35	< 70	< 2,5	1021021

+ Option : Soft start and double hit function : Add suffix  in your order . Example : GXS 80 + ESD

TIMER & AUTOREVERSE Series : GXT

(fasten at preset angle/time, Automatic Reverse/forward sequence – ideal for tapping operation, helicoil fastening, pre-assembly...)

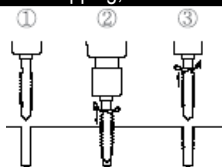
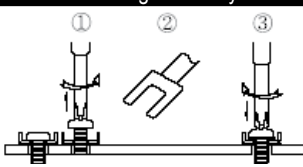
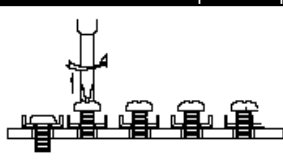
Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec ²)	Code
GXT 80 ESD V2	0,09 - 0,8	300 - 1000	Lever	0,35	< 70	< 2,5	1021036
GXT 120 ESD V2	0,2 - 1,2	300 - 700	Lever	0,35	< 70	< 2,5	1021037

AUTOMATION Series : GXA

(Automatic spindle with remote start)

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec ²)	Code
GXA 80 ESD V2	0,09 - 0,8	300 - 1000	Remote	0,5	< 70	< 2,5	1021033
GXA 120 ESD V2	0,2 - 1,2	300 - 700	Remote	0,5	< 70	< 2,5	1021034

Example of applications for GXT Model

Examples 1 Useful for Tapping, Helicoil fastening	Examples 2 Cable lug assembly	Examples 3 Fasten or unfasten at preset depth
 1 - Start forward rotation 2 - Stop at the target torque or set time 3 - Auto reverse rotation and stop at releasing the lever or set time	 1 - Start from reverse rotation 2 - Stop at the set time and wait for set time 3 - Auto forward rotation and stop at the target torque	

GX Series 40 Volts • Torque range : 0,28 to 4,4 Nm • Auto-shut off • CE •



Main Benefits

- Higher productivity : thanks to high Brushless motor efficiency!
- Higher comfort : thanks to improved ergonomy and reduced sound level and heat!
- Increased economy : thanks to brushless motor (triple the life time of the motor).
- Reduced maintenance : The best Mean Time Between Failure (MTBF) ever reached until now (no carbon brush, trigger and reverse contactless switches, over-heat and over-current built in alarms protecting the screwdrivers).
- Increased production quality : thanks to ESD protection, accurate clutch +/- 3 % and Softstop clutch Mechanism.

STANDARD Series : GX

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec ²)	Code
GX-150 ESD	0,3 - 1,47	800 to 1700	Lever	0,52	<70	<2,5	1027422
GX-220 ESD	0,6 - 2,15	600 to 1250	Lever	0,52	<70	<2,5	1027423
GX-450 ESD	1 - 4,41	300 to 650	Lever	0,52	<70	<2,5	1027424
GX-150 P ESD	0,3 - 1,47	800 to 1700	Push to Start	0,52	<70	<2,5	1027425
GX-220 P ESD	0,6 - 2,15	600 to 1250	Push to Start	0,52	<70	<2,5	1027426
GX-450 P ESD	1 - 4,41	300 to 650	Push to Start	0,52	<70	<2,5	1027427

Option : Soft start and double hit functions : Add suffix  in your order . Exemple : GX 80 + ESD

TIMER & AUTOREVERSE Series : GXT

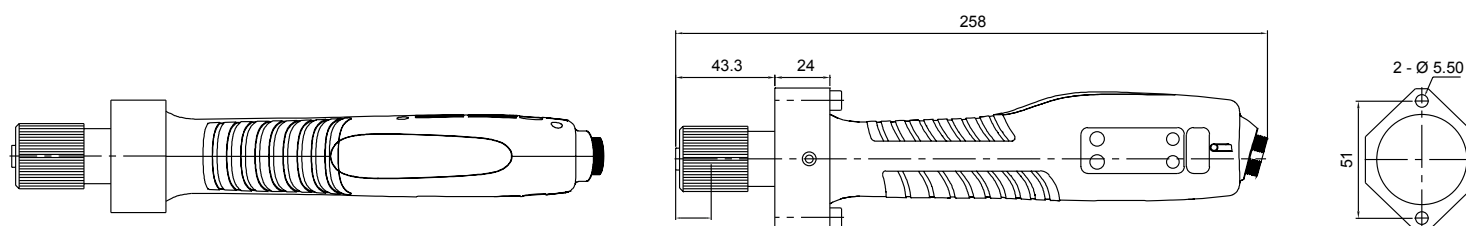
(fasten at preset angle/time, Automatic Reverse/forward sequence – ideal for tapping operation, helicoil fastening, pre-assembly...)

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec ²)	Code
GXT-150 ESD	0,3 - 1,47	800 to 1700	Lever	0,52	<70	<2,5	1075304
GXT-220 ESD	0,6 - 2,15	600 to 1250	Lever	0,52	<70	<2,5	1075305
GXT-450 ESD	1 - 4,41	300 to 650	Lever	0,52	<70	<2,5	1075306

AUTOMATION Series : GXA

(Automatic spindle with remote start)

Model	Torque Range (Nm)	Rotation speed (rpm)	Starting system	Weight (Kg)	Noise level (dBA)	Vibrations level (m/sec ²)	Code
GXA-150 ESD	0,3 - 1,47	800 to 1700	Remote	0,6	<70	<2,5	1027434
GXA-220 ESD	0,6 - 2,15	600 to 1250	Remote	0,6	<70	<2,5	1027435
GXA-450 ESD	1 - 4,41	300 to 650	Remote	0,6	<70	<2,5	1027436



Controller

SMPS Technology Inside!



XS-40D

Main Benefits

- High productivity : Thanks to the unique SMPS technology (switching modulation), the connected screwdriver always delivers constant rotation speed and fastening force even for demanding fastening process (self-tapping tightening, soft joint....).
- Comfort : Light and compact.
- Durability : Built-in Over heat and Over Current protection prevent the screwdriver from damage or bad use.
- Economy : Maintenance free.
- Quality : Easy monitoring of your fastenings thanks to torque reached signal output, start and stop signal outputs, selectable softstart, Double-hit mode for soft joint, Screwdriver lock signal input for PLC (prevents screwdrivers activation until PLC input signal - on XS-38 D only).

Controller

Model	Power (AC) (V)	Output voltage low (V)	Output voltage high (V)	Rated output (A)	Weight (Kg)	Size (mm)	For screwdrivers	Code
XS-40D	220	30	40	3	0,86	90x150x55	GX Series	1040065

SCOUT Poka yoke controller (Suitable with XS-38D, XS-38D FA, XS-40D*)

**Prevents screw fastening errors!
Supervised process!**



Set until 7 tightening programmes

Tightening monitoring :

- Detects cross threading, omissions, double tightening, unfinished rundown.
- Screws counting, OK-NG fastening, OK-NG cycle.
- Buzzer Alert, displays error conditions.

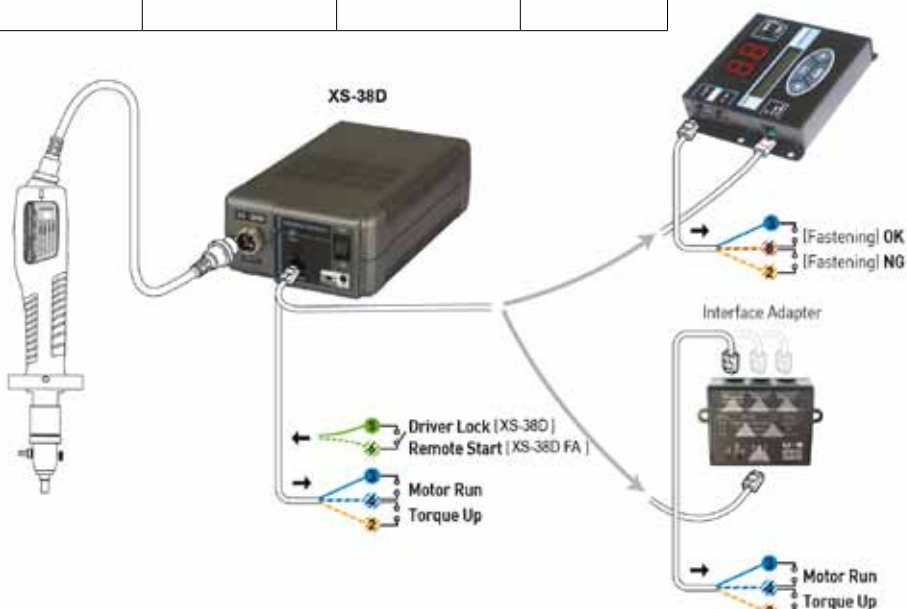
Sequence management :

- Parts detection, parts OK-NG sorting through PLC.
- Storage of several tightening settings with the parameter mode.

Model	Key features	Inputs features	Outputs features	Code
SCOUT V2.1	> Password protection > Display of total fastened screw number > Display of remaining screw number > Built-in fastening time measurement function > Alarms: leds + several buzzers > Easy programming by scroll menu and self learning mode > Wall mountable	> Cycle start > Driver lock/unlock	> OK > NG > Buzzer alarm > Cycle end	1040066

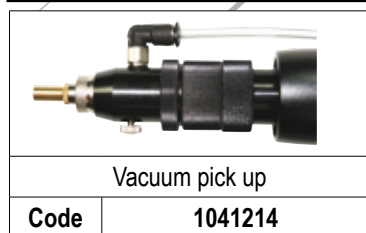
Example

* SCOUT V2.1 requires
U3B interface (see page 11)
to be connected on XS-40D controller



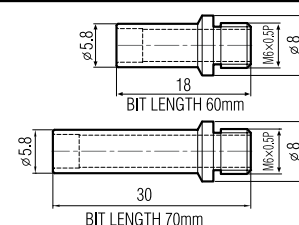
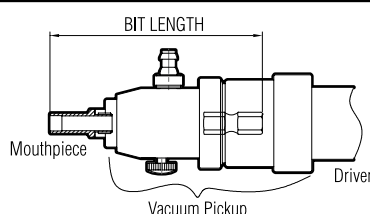
Accessories *For GX Series*

Screw Vacuum Pickups (for GX - 30 Volts only)



Vacuum pick up assembly is provided without the sleeve (on request).

The recommended bit length is 44mm long. Thread size : 4mm.



Accessories

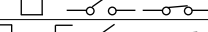
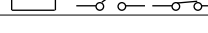
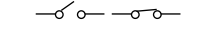
			
Designation	Torque ring cover Black	Ring for arm mounting for GX (30 Volts) only	Spiral cable 4 m
Code	1041213 (for GX 30 Volts) 1041205 (for GX 40 Volts)	1041501	1010413

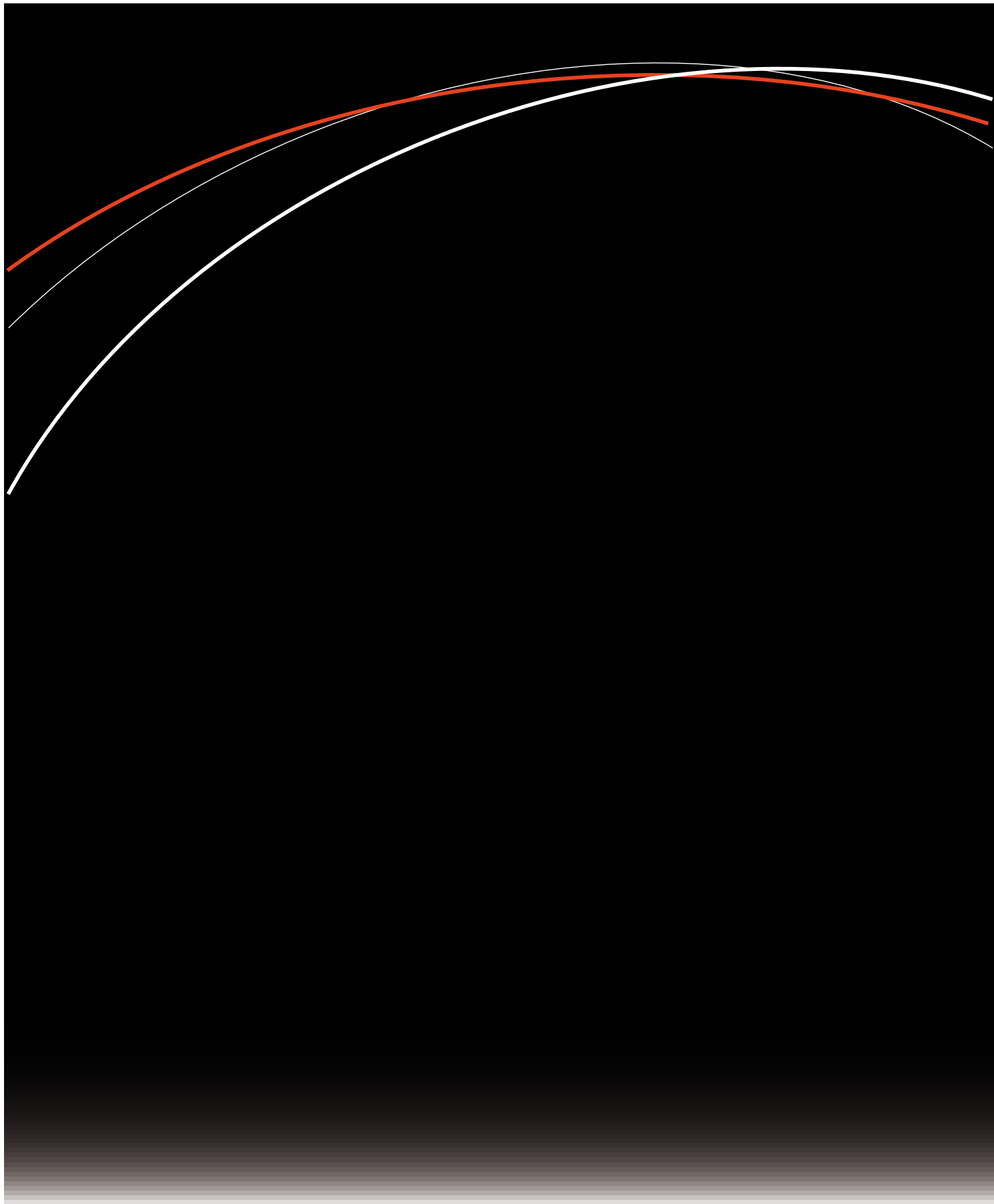
PLC Interface



- Model U-3B
- Weight : 75g
- Size : 75(W) x 61(D) x 20(H)mm
- Type of signals :
 - open collector by optocoupler (reversed)
 - relay contact N.C
 - Relay contact N.O

Converted signals by U-3B converter from XS-40D

N°	Wire Color	Signal	XS-38D	Interface converter
1	ORANGE	Spare		
2	ORANGE STRIPE	Torque Up		
3	BLUE	Motor Run		
4	BLUE STRIPE	Common for 2&3 wire		
5	GREEN	Driver Lock		
6	GREEN STRIPE			
7	BROWN	No use		
8	BROWN STRIPE	Spare		



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